

Crystallization of hydrates of sodium hydroxide by cooling a caustic liquor

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AB The heat exchangers in contact with the caustic liquor are made of Cu, Ni, or Cr or of their alloys, or are made of steel clad with these metals or their alloys on the caustic-liquor side to decrease the encrustation of the surface and maintain heat-transfer properties. Thus, the heat transfer through a tube made of type 316L stainless steel was decreased by encrustation after 8 hr from 1400 to 700 kcal/hr.m², whereas with a Cu tube the heat transfer was unchanged for 7 hr.